

UTC UNISONIC TECHNOLOGIES CO., LTD

2SB772

PNP SILICON TRANSISTOR

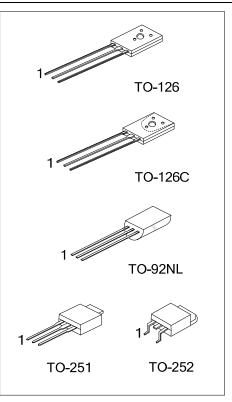
MEDIUM POWER LOW VOLTAGE TRANSISTOR

DESCRIPTION

The UTC 2SB772 is a medium power low voltage transistor, designed for audio power amplifier, DC-DC converter and voltage regulator.

FEATURES

- * High current output up to 3A
- * Low saturation voltage
- * Complement to 2SD882



ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Decking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SB772L-x-T60-K	2SB772G-x-T60-K	TO-126	Е	С	В	Bulk	
2SB772L-x-T6C-K	2SB772G-x-T6C-K	TO-126C	Е	С	В	Bulk	
2SB772L-x-TM3-T	2SB772G-x-TM3-T	TO-251	В	С	Е	Tube	
2SB772L-x-TN3-R	2SB772G-x-TN3-R	TO-252	В	С	Е	Tape Reel	
2SB772L-x-TN3-T	2SB772G-x-TN3-T	TO-252	В	С	Е	Tube	
2SB772L-x-T9N-B	2SB772G-x-T9N-B	TO-92NL	Е	С	В	Tape Box	
2SB772L-x-T9N-K	2SB772G-x-T9N-K	TO-92NL E C		С	В	Bulk	
2SB772L-x-T9N-R	2SB772G-x-T9N-R	TO-92NL	Е	С	В	Tape Reel	

(1) doking Type (2)Package Type (3)Rank	 K: Bulk, T: Tube, R: Tape Reel T60: TO-126, T6C: TO-126C, TM3: TO-251, TN3: TO-252, T9N: TO-92NL x: refer to Classification of h_{FE2} G: Halogen Free, L: Lead Free
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■ ABSOLUTE MAXIMUM RATINGS (T_A = 25°C)

PARAMETER		SYMBOL	RATINGS	UNIT	
Collector-Base Voltage		V _{CBO}	-40	V	
Collector-Emitter Voltage		V _{CEO}	-30	V	
Emitter-Base Voltage		V _{EBO}	-5	V	
Collector Current		DC	lc	-3	A
		Pulse	I _{CP}	-7	А
Base Current		IB	-0.6	A	
	TO-92NL	TO-92NL		0.5	
Collector Dissipation	TO-126/TC)-126C	Pc	1	W
	TO-251/TO)-252		1	
Junction Temperature		ТJ	+150	°C	
Storage Temperature		T _{STG}	-55 ~ +150	°C	

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

THERMAL DATA

PARAMETER		SYMBOL	RATING	UNIT
	TO-126/ TO-126C		12.5	
Junction to Case	TO-251/ TO-252	$\theta_{\rm JC}$	12.5	°C/W
	TO-92NL		25	

■ ELECTRICAL CHARACTERISTICS (T_A= 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV _{CBO}	I _C =-100μΑ, I _E =0	-40			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	Ι _C =-1mA, Ι _B =0	-30			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =-100μΑ, I _C =0	-5			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =-30V ,I _E =0			-1000	nA
Collector Cut-Off Current	I _{CEO}	V _{CE} =-30V ,I _B =0			-1000	nA
Emitter Cut-Off Current	I _{EBO}	V_{EB} =-3V, I _C =0			-1000	nA
DC Current Coin (Note 1)	h _{FE1}	V _{CE} =-2V, I _C =-20mA	30	200		
DC Current Gain (Note 1)	h _{FE2}	V _{CE} =-2V, I _C =-1A	100	150	400	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =-2A, I _B =-0.2A		-0.3	-0.5	V
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =-2A, I _B =-0.2A		-1.0	-2.0	V
Current Gain Bandwidth Product	f⊤	V _{CE} =-5V, I _C =-0.1A		80		MHz
Output Capacitance	C _{OB}	V _{CB} =-10V, I _E =0,f=1MHz		45		рF
Note A Dules toot D. (200 - Dute Outle (20)						

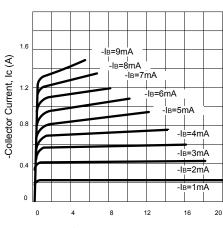
Note 1: Pulse test: P_W <300 μ s, Duty Cycle<2%

CLASSIFICATION OF h_{FE2}

RANK	Q	Р	E
RANGE	100 ~ 200	160 ~ 320	200 ~ 400



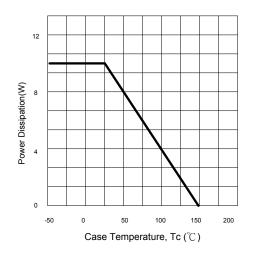
■ TYPICAL CHARACTERICS



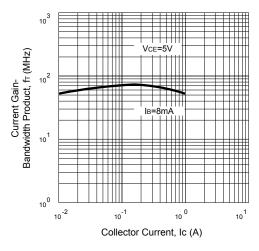
Static Characteristics

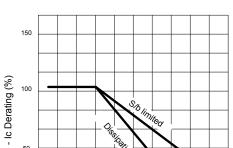
-Collector-Emitter voltage (V)

Power Derating





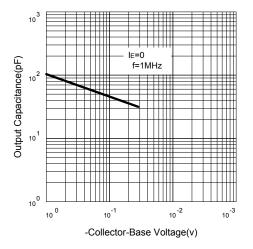




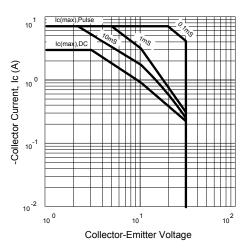
Derating Curve of Safe Operating Areas

Case Temperature, Tc (°C)

Collector Output Capacitance

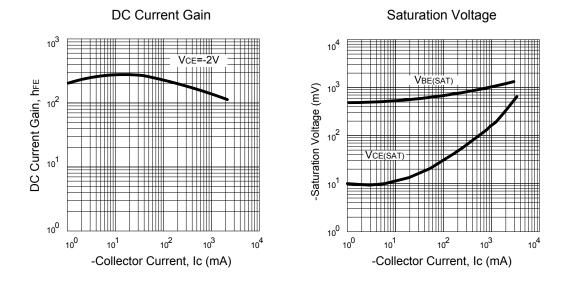








■ TYPICAL CHARACTERICS(Cont.)



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